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SPECIFICATION

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PART-Fee

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Title, Halo Hanger

~~TRADE~~ Background. This invention relates to a woodwind musical instrument known as a recorder, specifically to an apparatus for suspending a recorder from one's neck.

b. Objects and Advantages. When not in use, recorders are either held in one's hand or laid down. This creates the problem of eliminating the use of one hand or the misplacing of the recorder. Accordingly, the objective and advantage of the Halo Hanger is that this solves both problems by allowing the recorder to be comfortably suspended from one's neck, out of the way, while not in use, but remain readily available for use. Further objects and advantages of the Halo Hanger invention will become apparent from a consideration of the drawing and ensuing description.

c. Description of Drawings. Drawing 1. Figures 1 and 2 show a plane and oblique view of the of the ring respectively. Figure 3 shows the ring described in Figures 1 and 2 attached to a strap. Drawing 2 shows a ring with strap connected to a recorder.

d. Description of Invention. The Halo Hanger is a simple apparatus consisting of a ring of suitable inside diameter so as to fit snugly around the shaft of a recorder below the mouth piece and a strap that attaches to the ring and of sufficient length so that it can be suspended around the neck of the person playing the recorder.

e. Operation of Invention. After a suitable strap is attached to the appropriate size ring, the ring is attached to a recorder by slipping the ring onto the upper section of the recorder. The strap may be adjusted so the recorder hangs comfortably from the neck of the person playing the recorder.

Machine Claim

Halo Hanger

An attachment for the suspension of a recorder, from the user's neck, comprising:

a. a ring of sufficient inside diameter to fit snugly on a recorder, and

b. a strap of sufficient length to allow the strap to be attached to the ring and be suspended from the neck of the user for easy access.

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HALO HANGER

BACKGROUND OF THE INVENTION

1. Field of the Invention

H This invention pertains to the general field of a neck strap arrangement for carrying a musical instrument ~~or other object~~. In particular, it provides a new and improved method of carrying a woodwind musical instrument known as a recorder.

2. Description of Prior Art

A The recorder is an instrument that is of such size that it can be carried easily. This instrument is most often used by children in early grade school for instruction in music. Most often the child will purchase a recorder. The child will then carry the recorder to class and carry it in the hand during class. If the child needs to use the hands for another purpose, the recorder is laid down and subject to loss or confusion when play is to be continued. Also, like anything a child is forced to carry in their hands, the object can be inappropriately used as a toy, weapon, or whatever fits the occasion.

Prior art is limited to some resourceful teachers that have simply tied a string around the recorder with some sort of loop that is placed around the child's neck to suspend the recorder. Because the knots may slip, come untied or can not be readily untied, this method has not gained wide support. In addition, after the teacher has tied all the knots required by the students, the teacher has little time left for instruction. Thus, at the present time, there is no suitable means for the

hand free carrying of the recorder.

SUMMARY OF INVENTION

It is therefore an objective of this invention to provide a device for conveniently carrying a recorder securely affixed to a strap that is worn about the neck.

Another objective of the invention is the realization of the above mentioned objective with simple, reliable and inexpensive hardware.

In accordance with these and other objectives, the method and apparatus of this invention consist of a ring and an attached strap. The ring is made of resilient material and is of sufficient inside diameter so as to fit, after the strap has been secured to the ring, snugly around the shaft of the mouth piece of the recorder. The ring is secured on the recorder by pulling the recorder apart at its dividing point and then slipping the ring around the mouth piece section and sliding it up the shaft until it is securely lodged on the shaft. Because the diameter of the shaft, of the mouth piece section, increases from the separation point towards the other end, the ring will be secure on the recorder shaft approximately one inch from the dividing point. The two pieces of the recorder are then reconnected.

Various other purposes and advantages of the invention will become clear from its description in the specifications that follows, and from the novel features particularly pointed out in the appended claims. Therefore, to the accomplishment of the

objectives described above, this invention consists of the feature hereinafter illustrated in the drawings, fully described in the detailed description of the preferred employment and particularly pointed out in the claims. However, such drawings and description disclose only some of the various ways in which the invention may be practiced.

BRIEF DESCRIPTION OF THE DRAWINGS

This invention together with its features and advantages can be better understood from the following description when read in conjunction with the drawings in which

FIG. 1 is a perspective view of the ring of the device of the invention.

FIG. 2 is a perspective view of the device of the invention.

Q FIG. 3 is a perspective view of the device attached to a recorder.

DETAILED DESCRIPTION OF INVENTION

The heart of this invention lies in the simple ring, which makes it possible to conveniently attach a strap to a recorder. Thus, the main objective of providing an easy method to carry a recorder is met.

Referring to the drawings, wherein the same reference numbers and symbols are used throughout to designate like parts, FIG. 1 illustrates the general configuration of the ring 1 before the strap 2 is attached and it is mounted on the recorder A.

The ring 1 has a surface 3 and 5 of such dimensions so as to provide strength enough to ~~with stand~~ ^{withstand} the rigors and forces

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that would be anticipated when the device is in use by elementary age school children. As illustrated in FIG. 1, the precise geometry of the inner surface 4 of the ring is a circle with a diameter ~~a few thousandths of an inch~~ larger than the diameter of the recorder A at the point of the juncture C of the two pieces B and D of the recorder A. The diameter of the mouth piece B section of the recorder A increases from the separation point C to the air hole of the mouth piece B located just above the mid point of the mouth piece B.

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The strap 2 is made of a ~~thin cloth~~ material that is strong enough to hold the recorder or other desired object, yet be comfortable when placed around the neck. The knot 7 is ~~a simple over-hand knot~~ tied in the middle of strap 2 after placing one end through the ring 1. Knot 6 is any knot that will neatly secure the ends of the strap 2.

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The ring 1 is attached to the recorder A by pulling apart the two pieces B and D of the recorder A at the separation point C. The ring 1 is then slide onto the shaft of the mouth piece B of the recorder 1 at the end that attaches to the fingering piece D of the recorder A. The ring 1 will slip onto the mouth piece B and then lodge at a point approximately one inch up the shaft due to the slight taper of the shaft.

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While the invention is described in terms of a device for providing a means of holding or carrying a recorder, it is obvious that the same principle could be extended to applications involving other musical instruments or objects. Therefore, it

is understood that many equivalent devices are possible within the scope of the present invention, with different configurations of the ring. Thus, various changes in the details, steps and materials that have been described may be made by those skilled in the art within the principles and scope of the invention ~~herein illustrated and defined in the appended claims.~~ While the present invention has been shown and described herein in what is believed to be the most practical and preferred embodiment, it is recognized that departures can be made therefrom within the scope of the invention, which is therefore not to be limited to the details disclosed herein, but is to be accorded the full scope of the claims so as to embrace any and all equivalent apparatus and methods.

CLAIM

Sub 1 1. A device for holding a recorder, comprising, in combination:

- (a) a recorder
- (b) a circular ring, having an inner surface diameter slightly larger than the diameter of said recorder at the point where the two pieces of the recorder are attached.
- (c) a strap, attached to the ring, for securing the device for convenient access by a user.

2. The device described in claim 1, wherein said recorder is any other similar musical instrument or object.

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